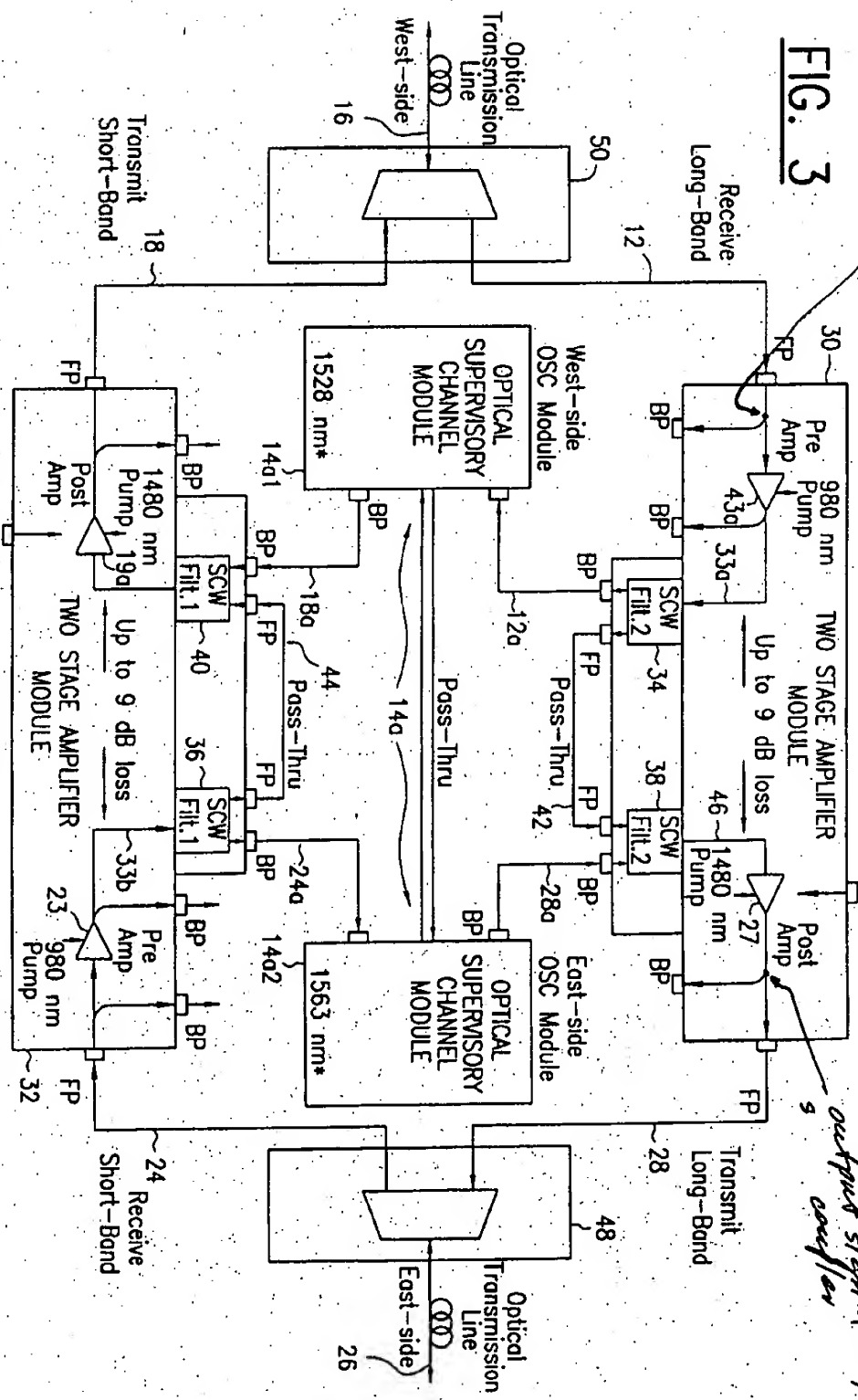


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FIG. 3



* Wavelength of the OSC is 1528 nm for combining with short-band traffic channels, and 1563 nm for combining with long-band traffic channels. SCW Filter 1 drops/adds 1528 nm, and SCW Filter 2 drops/adds 1563 nm. Thus, for bidirectional, the upper amplifier must use OSC filter 2.

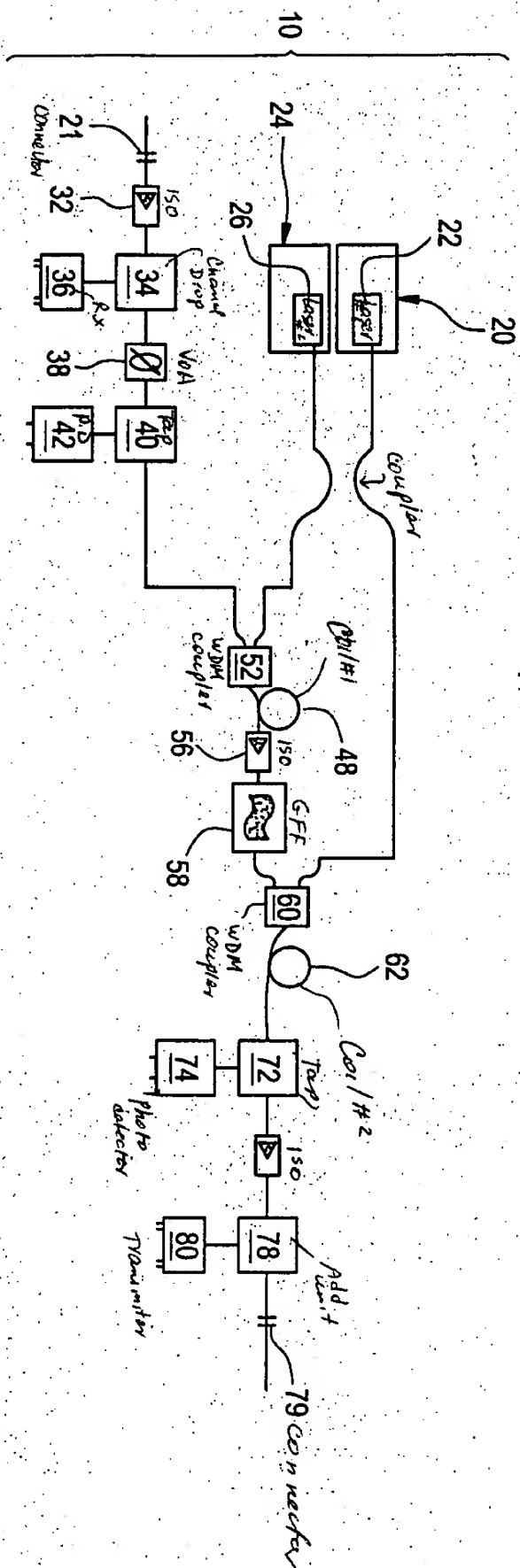


FIG. 2

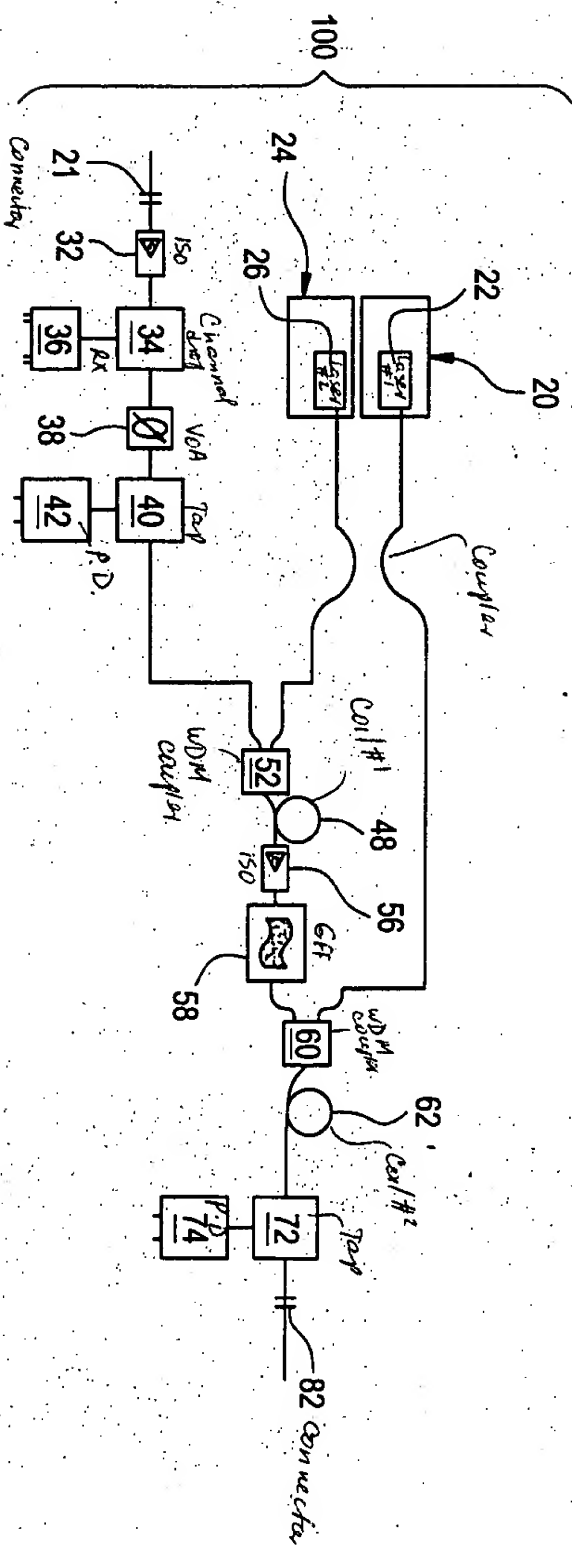


FIG. 4

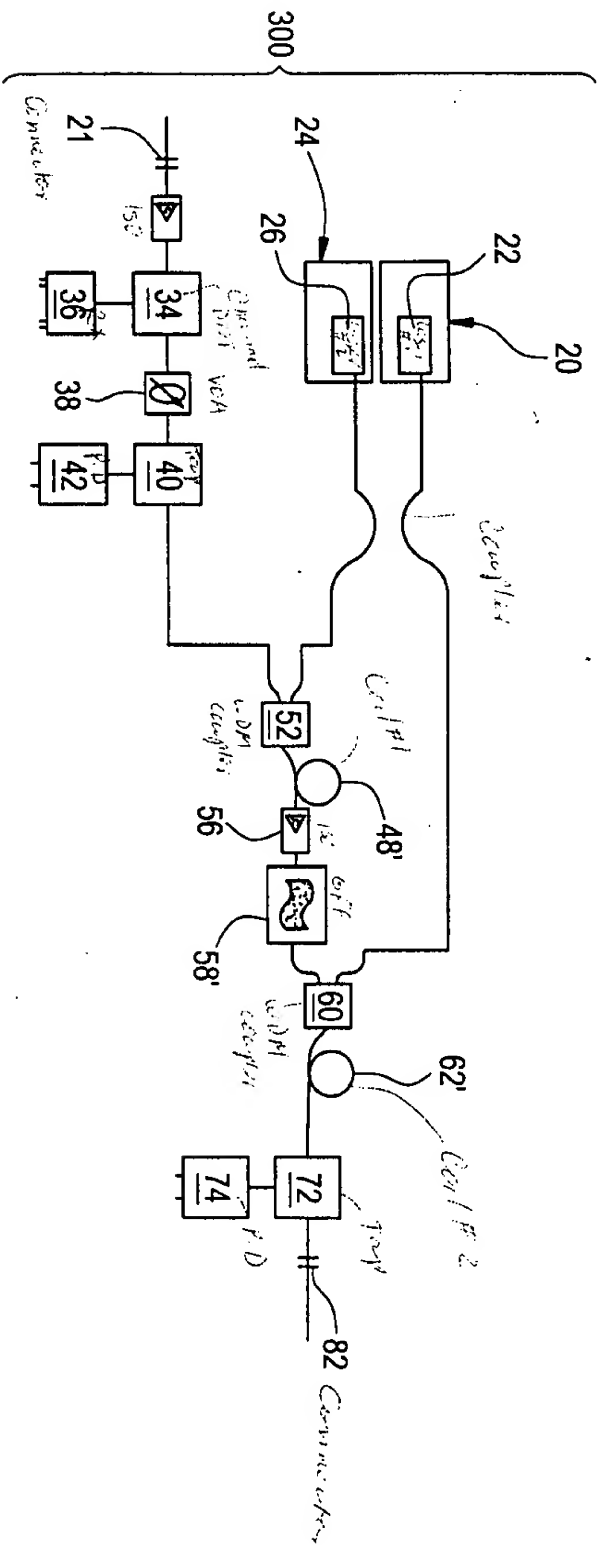


FIG. 5

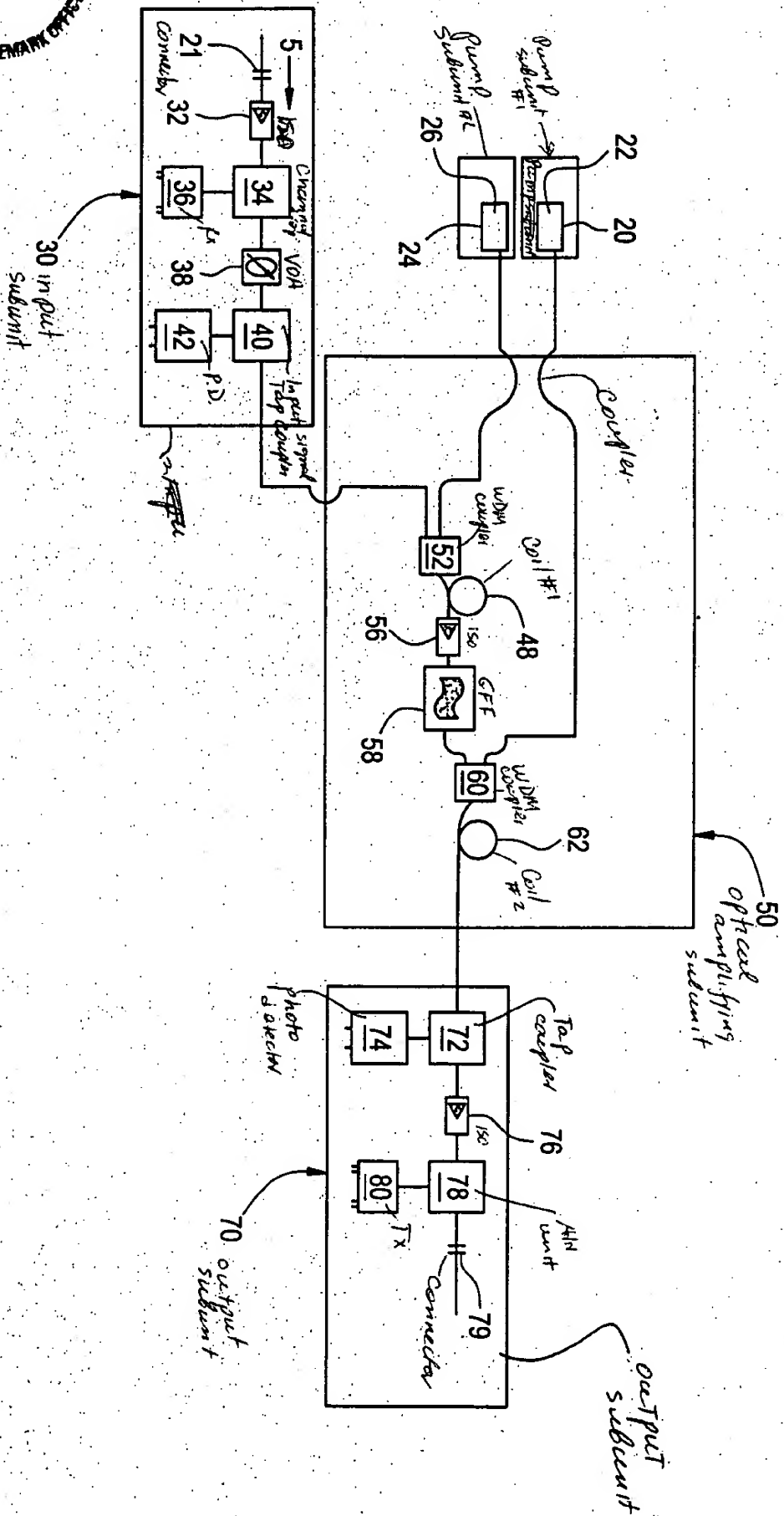


FIG. 6

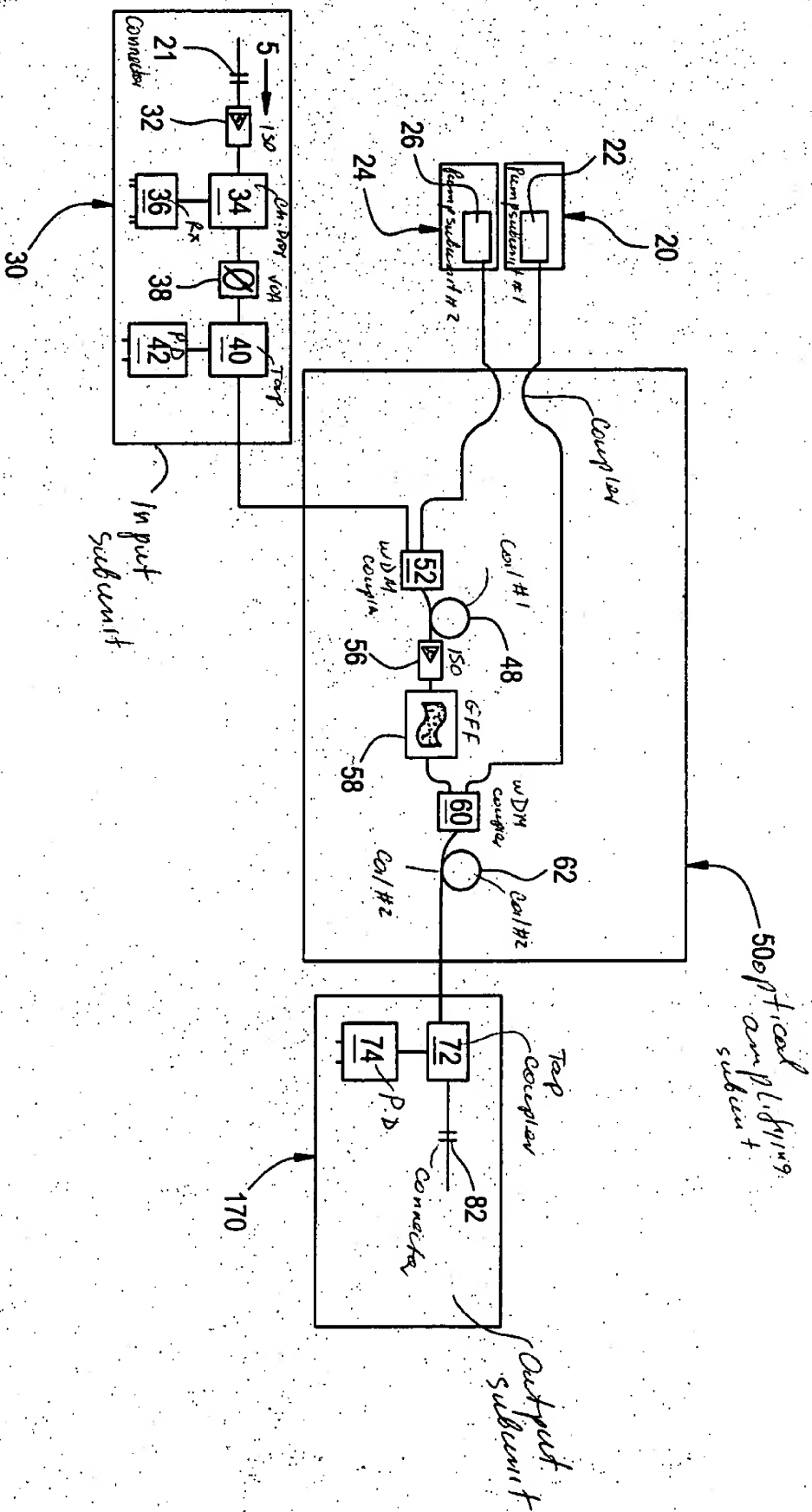


FIG. 7

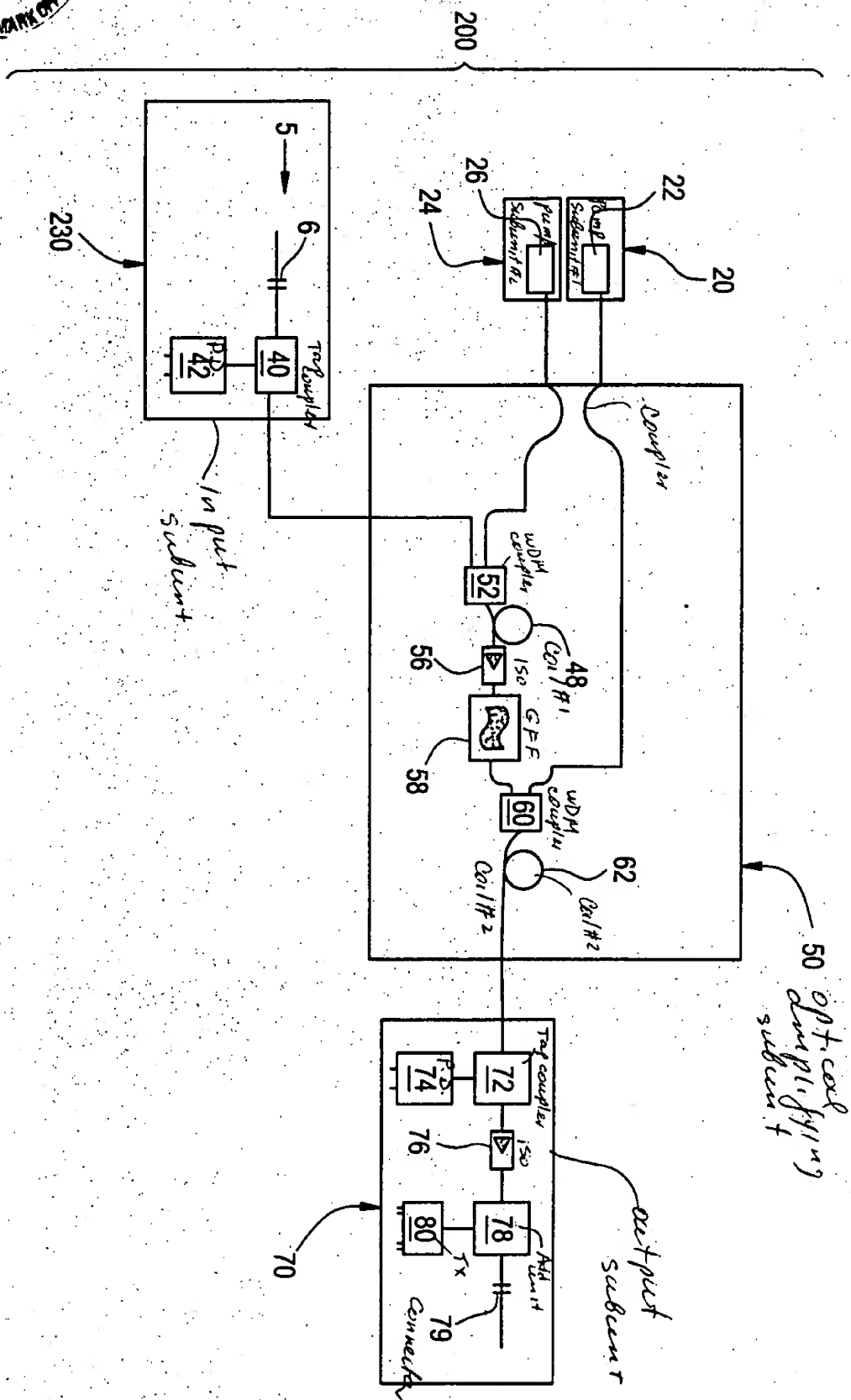


FIG. 8

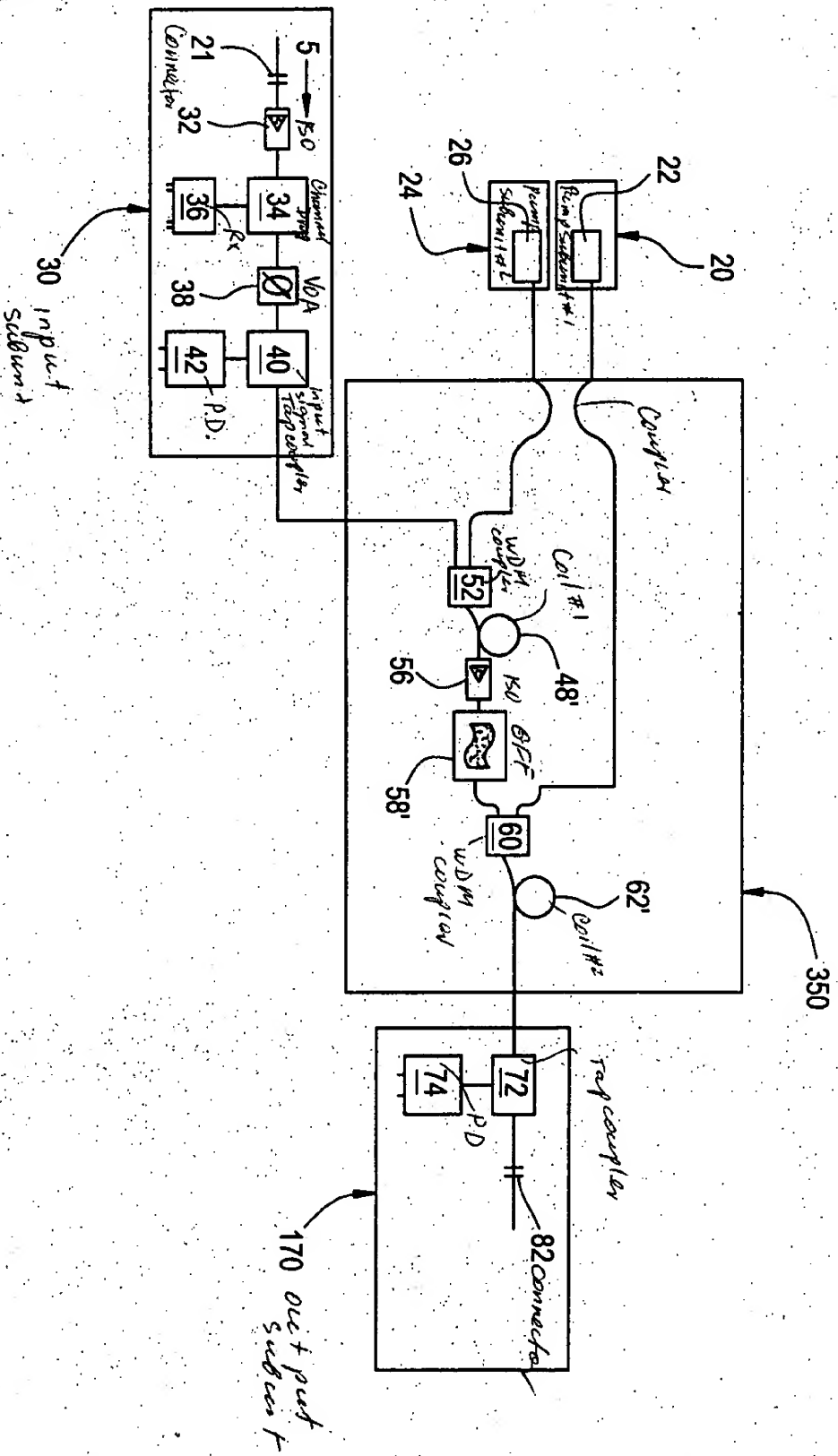


FIG. 9

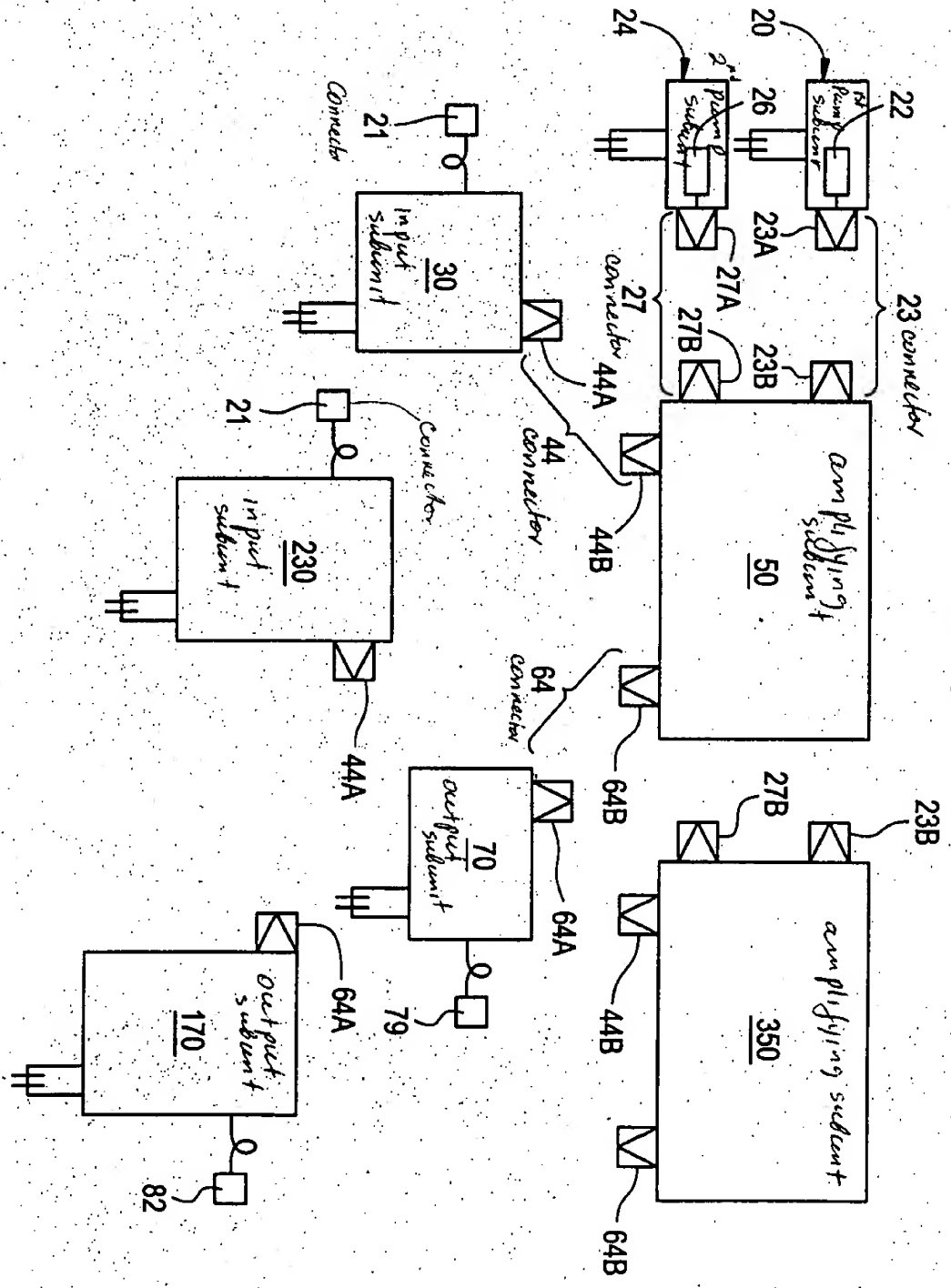


FIG. 10

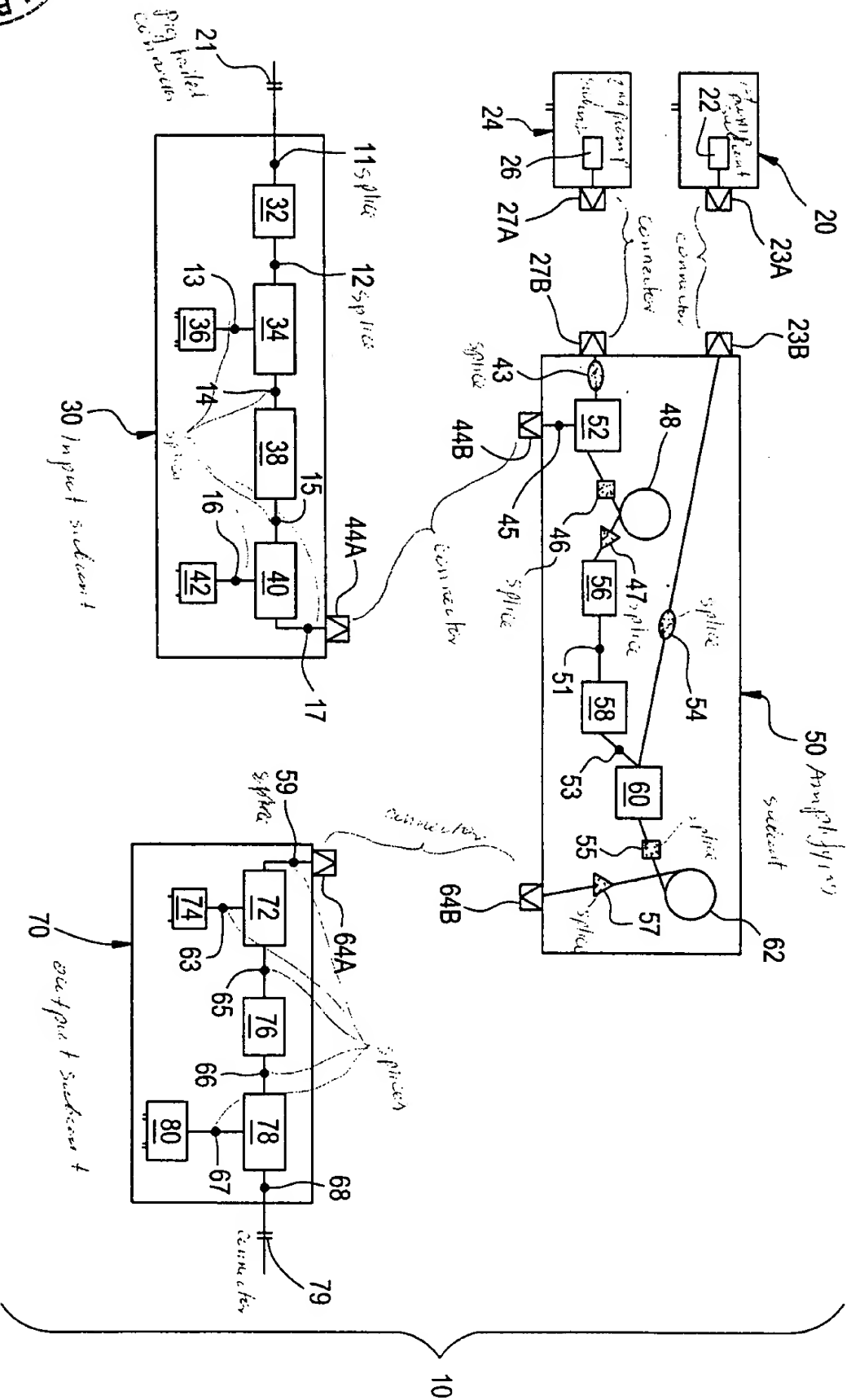


FIG. 11

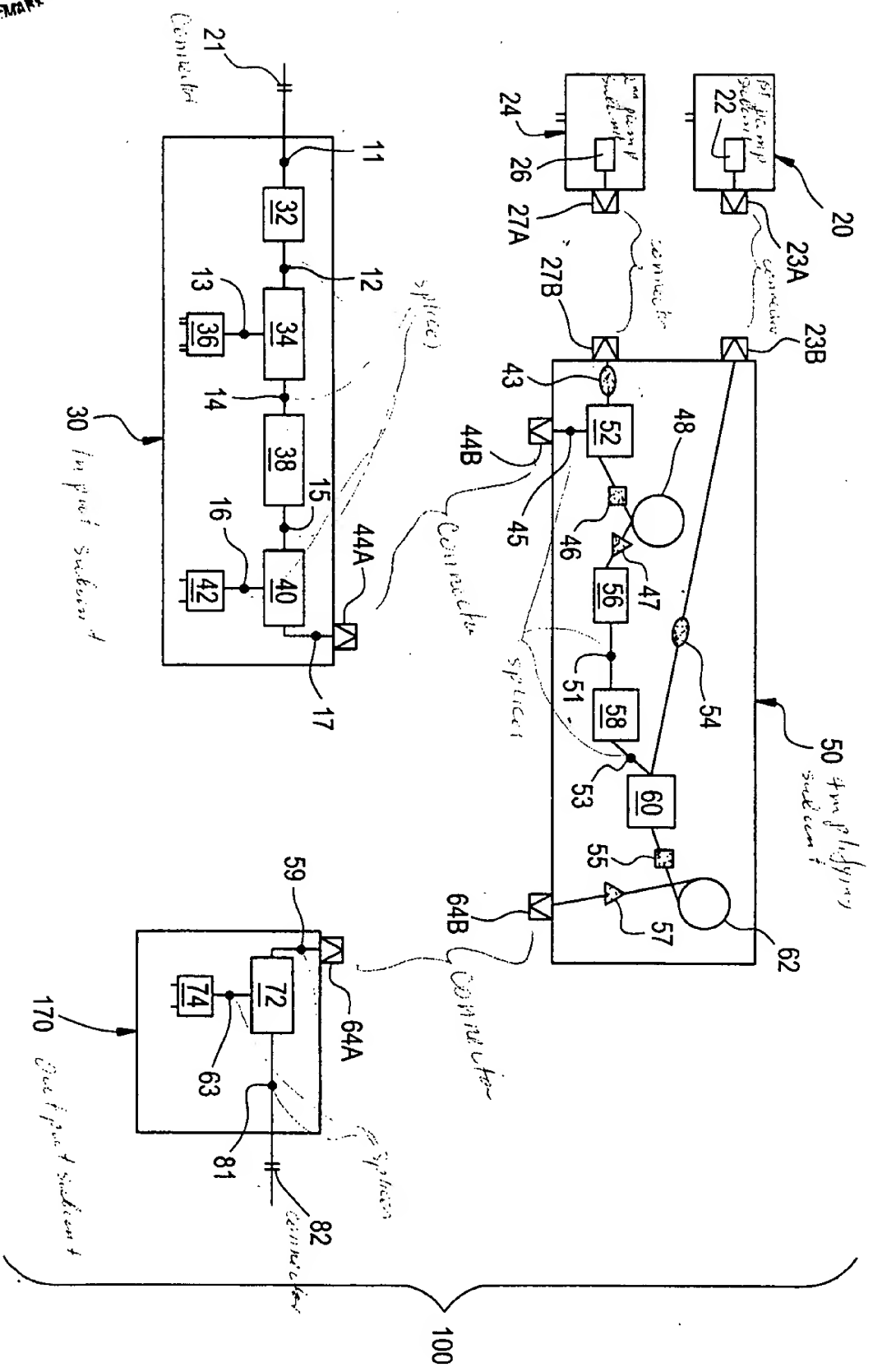


FIG. 12

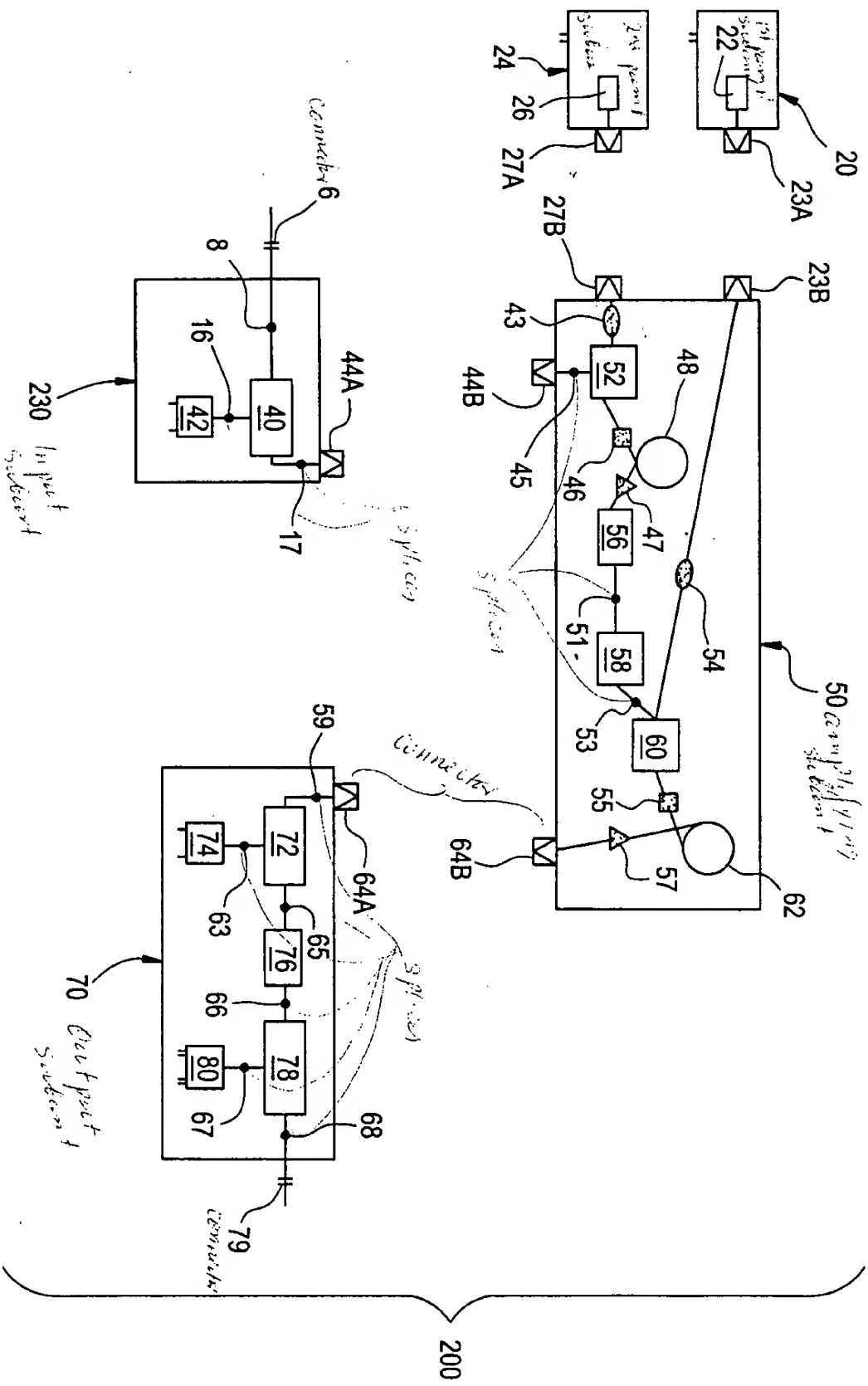


FIG. 13

